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Please cancel claims 17-37.

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Please substitute the following claims for pending claims with the same numbers.

- 1 1. A local network-capable device adapted for collaborative operation and
2 communication over a network with at least one remote network-capable device
3 to enable the local network-capable device and the remote network-capable
4 device to cooperatively edit the same data, said local network-capable device
5 comprising:
6 A) a memory for storing a local copy of the data in accordance with a data
7 model;
8 B) a data-change engine coupled with the memory, and responsive to a
9 plurality of data change requests, for controlling storage of the local copy
10 of data in the memory in accordance with the data model and making
11 changes to the local copy of the data; the data change requests including
12 a locally-generated data change request and a remotely-generated data
13 change request; and
14 C) a dynamics manager, coupled with the data-change engine, and
15 responsive to the data change requests for controlling the engine and
16 coordinating execution of the data change requests; wherein the dynamics
17 manager, responsive to the data change requests, can cause the making
18 of selected data changes in an order, the rolling-back of the selected data
19 changes and the remaking of the selected data changes in another order
20 so that the local copy of the data is consistent with a copy of the data
21 maintained by the remote network-capable device.

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1 The local network-capable device in accordance with claim 3, wherein the data
2 change request priority scheme includes a dependency identifier in each data

3 change request, and the dynamics manager is responsive to the dependency
4 identifier in causing rolling-back and remaking of data changes.

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1 8. The local network-capable device in accordance with claim 7, wherein the
2 dependency identifier specifies at least one data change request on which the
3 encoded data change request depends.

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12. A distributed, coordinated system for maintaining plural copies of the same data
2 pursuant to a distributed data model, wherein the copies can be changed
3 responsive to users' actions, the system comprising:

- 4 A) a plurality of computer systems, each of the computer systems capable of
5 locally generating a plurality of data change requests for changing a local
6 copy of the data and of executing data change requests including the
7 locally-generated data change requests and remotely-generated data
8 change requests generated by others of the computer systems so as to
9 make the requested changes to the local copy of the data;
- 10 B) each of the computer systems including a dynamics manager that
11 receives locally-generated data change requests and remotely-generated
12 data change requests for determining, responsive to information contained
13 in the locally-generated and remotely-generated data change requests, an
14 order in which requested changes are made to the local copy of the data,
15 for making requested data changes in the determined order, for rolling-
16 back data changes made when a remotely-generated data change
17 request is received out of the determined order and for remaking
18 requested data changes in a new order.
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14. A framework apparatus for providing communication services for an activity-
2 based collaboration system in which data change requests comprising deltas are
3 communicated over a network between network-capable devices in order to

4 maintain consistency between local data copies, the framework apparatus
5 comprising a communications manager operable on a local network capable
6 device for sending locally-generated deltas over a network to at least one remote
7 network-capable devices and for receiving remotely-generated deltas from the at
8 least one remote network-capable device; and a dynamics manager responsive
9 to dependency information contained in the deltas for determining an order for
10 processing the deltas to make changes to each local data copy, the dynamics
11 manager being responsive to the reception of a remotely-generated delta out of
12 the determined order for causing the selective rollback of changes made to a
13 local data copy and selective remaking of the rolled-back data changes in a new
14 order.

- M. J. R. con*
- 1 15. A method for providing communication services for an activity-based
2 collaboration system, in which data change requests comprising deltas are
3 communicated over a network between network-capable devices in order to
4 maintain consistency between local data copies, the method comprising the
5 steps of:
- 6 A) sending locally-generated deltas from a local network-capable device over
7 a network to at least one remote network-capable devices and for
8 receiving remotely-generated deltas from the at least one remote network-
9 capable device;
 - 10 B) determining an order for processing the deltas based on sequence
11 information contained within the deltas;
 - 12 C) processing the deltas in the determined order thereby making changes to
13 a local data copy as requested by the deltas;
 - 14 D) rolling back requested changes made to the local data copy in response to
15 sequence information contained within the deltas indicating that a
16 remotely-generated delta has been received out of the determined order;
17 and
 - 18 E) remaking the rolled-back data changes in a new order.

Please cancel claim 16.